SEQUENCE LISTING

<110> Eisai Co., Ltd.

<120> CULTURED XENOPUS LAEVIS CELL LINES EXPRESSING MUTANT ADENOMATOUS POLYPOSIS COLI GENE

<130> E1-A0201P

<140>

<141>

<150> JP 2002-241487

<151> 2002-08-22

<160> 9

<170> PatentIn version 3.1

<210>

〈211〉 2829

<212> PRT

<213> Xenopus laevis

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Thr Met Glu Asn Thr Asn Leu Arg Gln Glu Leu Glu Asp Asn Ser Asn His Leu Thr Lys Leu Glu Thr Glu Ala Thr Asn Met Lys Glu Val Leu Lys Gln Leu Gln Gly Ser Ile Glu Asp Glu Ala Met Ala Ser Ser Gly Pro Ile Asp Leu Leu Glu Arg Phe Lys Asp Leu Asn Leu Asp Ser Ser Asn Ile Pro Ala Gly Lys Ala Arg Pro Lys Met Ser Met Arg Ser Tyr 90. Gly Ser Arg Glu Gly Ser Leu Ser Gly His Ser Gly Glu Cys Ser Pro Val Pro Val Gly Ser Phe Gln Arg Arg Gly Leu Leu Asn Gly Ser Arg Glu Ser Ala Gly Tyr Met Glu Glu Leu Glu Lys Glu Arg Leu Leu

Ile	Ala	Glu	His	Glu	Lys	Glu	Glu	Lys	Glu	Lys	Arg	Trp	Tyr	Tyr	Ala
145					150					155					160
Gln	Leu	Gln	Asn	Leu	Thr	Lys	Arg	Ile	Asp	Ser	Leu	Pro	Leu	Thr	Glu
				165					170					175	
A on	Dha	Com	Vo+	C1n	The	A an	Vo+	Thm	A m ar	A 22 cr	Cln	Lou	Clu	Тигъ	C1
ASII	rne	Ser.		GIII		Asp	Met		AI g	ΛIΒ	GIII	Leu		1 9 1	oru.
			180					185					190		٠
Ala	Arg	Gln	Ile	Arg	Ala	Ala	Met	Glu	G1u	Gln	Leu	Gly	Thr	Cys	Gln
		195					200					205			
	•														
Asp	Met	Glu	Lys	Arg	Val	Gln	Thr	Arg	Val	Gly	Lys	Ile	His	Gln	Ile
	210					215					220				
					٠								·		
Glu	Glu	Glu	Ile	Leu	Arg	Ile	Arg	Gln	Leu	Leu	Gln	Ser	Gln	Val	Ala
225			•		230	-			-	235					240
Glu	Ala	Ala	Glu	Arg	Thr	Pro	Gln	Ser	Lys	His	Asp	Ala	Gly	Ser	Arg
				245					250					255	
						•					•				
Asp	Ala	Glu	Lys	Leu	Pro	Asp	Gly	Gln	Gly	Thr	Ser	Glu	Ile	Thr	Ala
			260					265			•		270		
															•

275 280 285

Ser Gly Asn Val Gly Ser Gly Gln Gly Ser Ser Ser Arg Ala Asp His

Asp	Thr	Thr	Ser	Val	Met	Ser	Ser	Asn	Ser	Thr	Tyr	Ser	Val	Pro	Arg
	290					295					300				

Arg Leu Thr Ser His Leu Gly Thr Lys Val Glu Met Val Tyr Ser Leu 305 310 315 320

Leu Ser Met Leu Gly Thr His Asp Lys Asp Asp Met Ser Arg Thr Leu
325 330 335

Leu Ala Met Ser Ser Gln Asp Ser Cys Ile Ala Met Arg Gln Ser
340 345 350

Gly Cys Leu Pro Leu Leu Ile Gln Leu Leu His Gly Asn Asp Lys Asp 355 360 365

Ser Val Leu Leu Gly Asn Ser Arg Gly Ser Lys Glu Ala Arg Ala Ser 370 375 380

Gly Ser Ala Ala Leu Asp Asn Ile Ile His Ser Gln Pro Asp Asp Lys
385 390 395 400

Arg Gly Arg Arg Glu Ile Arg Val Leu His Leu Leu Glu Gln Ile Arg
405 410 415

Ala Tyr Cys Glu Thr Cys Trp Glu Trp Gln Glu Ala His Glu Gln Gly

Met Asp Gln Asp Lys Asn Pro Met Pro Ala Pro Val Asp His Gln Ile Cys Pro Ala Val Cys Val Leu Met Lys Leu Ser Phe Asp Glu Glu His Arg His Ala Met Asn Glu Leu Gly Gly Leu Gln Ala Ile Ala Glu Leu Leu Gln Val Asp Cys Glu Met Tyr Gly Leu Ile Asn Asp His Tyr Ser Val Thr Leu Arg Arg Tyr Ala Gly Met Ala Leu Thr Asn Leu Thr Phe Gly Asp Val Ala Asn Lys Ala Thr Leu Cys Ser Met Lys Ser Cys Met Arg Ala Leu Val Ala Gln Leu Lys Ser Glu Ser Glu Asp Leu Gln Gln Val Ile Ala Ser Val Leu Arg Asn Leu Ser Trp Arg Ala Asp Val Asn

Ser	Lys	Lys	Thr	Leu	Arg	Glu	Val	Gly	Ser	Val	Lys	Ala	Leu	Met	Glu
				565					570					575	

Cys Ala Leu Asp Val Lys Lys Glu Ser Thr Leu Lys Ser Val Leu Ser
580 585 590

Ala Leu Trp Asn Leu Ser Ala His Cys Thr Glu Asn Lys Ala Asp Ile
595 600 605

Cys Ser Val Asp Gly Ala Leu Ala Phe Leu Val Ser Thr Leu Thr Tyr
610 620

Arg Ser Gln Thr Asn Thr Leu Ala Ile Ile Glu Ser Gly Gly Ile
625 630 635 640

Leu Arg Asn Val Ser Ser Leu Ile Ala Thr Asn Glu Asp His Arg Gln
645 650 655

Ile Leu Arg Glu Asn Asn Cys Leu Gln Thr Leu Leu Gln His Leu Lys
660 665 670

Ser His Ser Leu Thr Ile Val Ser Asn Ala Cys Gly Thr Leu Trp Asn 675 680 685

Leu Ser Ala Arg Asn Ala Lys Asp Gln Glu Gly Leu Trp Asp Met Gly
690 695 700

Ala	Val	Ser	Met	Leu	Lys	Asn	Leu	Ile	His	Ser	Lys	His	Lys	Met	Ile
705					710					715					720

Ala Met Gly Ser Ala Ala Ala Leu Arg Asn Leu Met Ala Asn Arg Pro
725 730 735

Ala Lys Tyr Lys Asp Ala Asn Ile Met Ser Pro Gly Ser Ser Val Pro
740 745 750

Ser Leu His Val Arg Lys Gln Lys Ala Leu Glu Ala Glu Leu Asp Ala
755 760 765

Gln His Leu Ser Glu Thr Phe Asp Asn Ile Asp Asn Leu Ser Pro Lys
770 775 780

Thr Thr His Arg Asn Lys Gln Arg His Lys Gln Asn Leu Cys Ser Glu
785 790 795 800

Tyr Ala Leu Asp Ser Ser Arg His Asp Asp Ser Ile Cys Arg Ser Asp 805 810 815

Asn Phe Ser Ile Gly Asn Leu Thr Val Leu Ser Pro Tyr Ile Asn Thr
820 825 830

Thr Val Leu Pro Gly Ser Ser Ser Pro Arg Pro Thr Met Asp Gly Ser

Arg Pro Glu Lys Asp Arg Glu Arg Thr Ala Gly Leu Gly Asn Tyr His Ser Thr Thr Glu Ser Ser Gly Asn Ser Ser Lys Arg Ile Gly Ile Gln Leu Ser Thr Thr Ala Gln Ile Ser Lys Val Met Asp Glu Val Ser Asn Ile His Leu Val Gln Glu Asn Arg Ser Ser Gly Ser Ala Ser Glu Met His Cys Met Ser Asp Glu Arg Asn Ser Gln Arg Lys Pro Ser Ser Asn His Pro Gln Ser Asn Pro Phe Thr Phe Thr Lys Ala Glu Ser Ser Thr Arg Gly Cys Pro Val Ala Phe Met Lys Met Glu Tyr Lys Met Ala Ser Asn Asp Ser Leu Asn Ser Val Ser Ser Thr Glu Gly Tyr Gly Lys Arg

Gly Gln Val Lys Pro Ser Val Glu Ser Tyr Ser Glu Asp Asp Glu Ser
980 985 990

Lys Phe Phe Ser Tyr Gly Gln Tyr Pro Ala Gly Leu Ala His Lys Ile
995 1000 1005

Gln Ser Ala Asn His Met Asp Asp Asn Asp Thr Glu Leu Asp Thr Pro
1010 1015 1020

Ile Asn Tyr Ser Leu Lys Tyr Ser Asp Glu Gln Leu Asn Ser Gly Arg

1025 1030 1035 1040

Gln Ser Pro Thr Gln Asn Glu Arg Trp Ser Arg Pro Lys His Ile Ile
1045 1050 1055

Asp Ser Glu Met Lys Gln Ser Glu Gln Arg Gln Pro Arg Thr Thr Lys

1060 1065 1070

Thr Thr Tyr Ser Ser Tyr Thr Glu Asn Lys Glu Glu Lys His Lys Lys

1075

1080

1085

Phe Pro Pro His Phe Asn Gln Ser Glu Asn Val Pro Ala Tyr Thr Arg

1090 1095 1100

Ser Arg Gly Ala Asn Asn Gln Val Asp Gln Ser Arg Val Ser Ser Asn 1105 1110 1115 1120

1 0/2 6

Leu Ser Asn Asn Ser Lys Ala Ser Lys Pro His Cys Gln Val Asp Asp
1125 1130 1135

Tyr Asp Asp Asp Lys Thr Thr Asn Phe Ser Glu Arg Tyr Ser Glu Glu

1140 1145 1150

Glu Gln Gln Glu Asp Glu Thr Glu Arg Gln Asn Lys Tyr Asn Ile Lys

1155 1160 1165

Ala Tyr Ala Ser Glu Glu His His Gly Glu Gln Pro Ile Asp Tyr Ser 1170 1175 1180

Arg Lys Tyr Ser Thr Asp Val Pro Ser Ser Ala Gln Lys Pro Ser Phe
1185 1190 1195 1200

Pro Tyr Ser Asn Asn Ser Ser Lys Gln Lys Pro Lys Lys Glu Gln Val
1205 1210 1215

Ser Ser Asn Ser Asn Thr Pro Thr Pro Ser Pro Asn Ser Asn Arg Gln
1220 1225 1230

Asn Gln Leu His Pro Asn Ser Ala Gln Ser Arg Pro Gly Leu Asn Arg

1235 1240 1245

Pro Lys Gln Ile Pro Asn Lys Pro Pro Ser Ile Asn Gln Glu Thr Ile

1 1/2 6

Gln Thr Tyr Cys Val Glu Asp Thr Pro Ile Cys Phe Ser Arg Gly Ser Ser Leu Ser Ser Leu Ser Ser Ala Glu Asp Glu Ile Glu Gly Arg Glu Arg Asn Ser Arg Gly Gln Glu Ser Asn Asn Thr Leu Gln Ile Thr Glu Pro Lys Glu Ile Ser Ala Val Ser Lys Asp Gly Ala Val Asn Glu Thr Arg Ser Ser Val His His Thr Arg Thr Lys Asn Asn Arg Leu Gln Thr Ser Asn Ile Ser Pro Ser Asp Ser Ser Arg His Lys Ser Val Glu Phe Ser Ser Gly Ala Lys Ser Pro Ser Lys Ser Gly Ala Gln Thr Pro Lys Ser Pro Pro Glu His Tyr Val Gln Glu Thr Pro Leu Met Phe Ser Arg

1 2/2 6

Cys	Thr	Ser	Gly	Ser	Ser	Leu	Asp	Ser	Phe	Glu	Ser	His	Ser	Ile	Ala
]	1395]	1400					1405			

Ser Ser Ile Ala Ser Ser Val Ala Ser Glu His Met Ile Ser Gly Ile 1410 1415 1420

Ile Ser Pro Ser Asp Leu Pro Asp Ser Pro Gly Gln Thr Met Pro Pro 1425 1430 1435 1440

Ser Arg Ser Lys Thr Pro Pro Pro Pro Gln Thr Val Gln Ala Lys Lys

1445 1450 1455

Asp Gly Ser Lys Pro Ile Val Pro Asp Glu Glu Arg Gly Lys Val Ala 1460 1465 1470

Lys Thr Ala Val His Ser Ala Ile Gln Arg Val Gln Val Leu Gln Glu 1475 1480 1485

Ala Asp Thr Leu Leu His Phe Ala Thr Glu Ser Thr Pro Asp Gly Phe 1490 1495 1500

Ser Cys Ala Ser Ser Leu Ser Ala Leu Ser Leu Asp Glu Pro Tyr Ile 1505 1510 1515 1520

Gln Lys Asp Val Gln Leu Lys Ile Met Pro Pro Val Leu Glu Asn Asp 1525 1530 1535

1 3/2 6

Gln Gly Asn Lys Ala Glu Pro Glu Lys Glu Phe Ile Asp Asn Lys Ala 1540 1545 1550

Lys Lys Glu Asp Lys Arg Ser Glu Gln Glu Lys Asp Met Leu Asp Asp 1555 1560 1565

Thr Asp Asp Ile Asp Ile Leu Glu Glu Cys Ile Ile Ser Ala Met 1570 1575 1580

Pro Arg Lys Pro Ser Arg Lys Asn Lys Lys Val Pro Gln Pro Thr Pro 1585 1590 1595 1600

Gly Lys Pro Pro Pro Pro Val Ala Arg Lys Pro Ser Gln Leu Pro Val
1605 1610 1615

Tyr Lys Leu Leu Ser Ser Gln Asn Arg Leu Gln Thr Gln Lys His Val
1620 1625 1630

Asn Phe Thr His Ser Asp Asp Met Pro Arg Val Tyr Cys Val Glu Gly

1635 1640 1645

Thr Pro Ile Asn Phe Ser Thr Ala Thr Ser Leu Ser Asp Leu Thr Ile

1650 1655 1660

Glu Ser Pro Pro Ser Glu Pro Thr Asn Asp Gln Pro Asn Thr Asp Ser

1 4/2 6

Leu Ser Thr Asp Leu Glu Lys Arg Asp Thr Ile Pro Thr Glu Gly Arg Ser Thr Asp Asp Thr Asp Ala Ser Lys Pro Leu Asn Pro Thr Thr Val Leu Asp Glu Asp Lys Ala Glu Glu Gly Asp Ile Leu Ala Glu Cys Ile His Ser Ala Met Pro Lys Gly Lys Ser His Lys Pro Tyr Arg Val Lys Lys Ile Met Asp Gln Ile Asn His Thr Ser Ala Ala Thr Ser Ser Gly Asn Ser Arg Ser Met Gln Glu Thr Asp Lys Asn Lys Pro Thr Ser Pro Val Lys Pro Met Pro Gln Ser Ile Gly Phe Lys Glu Arg Leu Lys Lys Asn Thr Glu Leu Lys Leu Asn Pro Asn Ser Glu Asn Gln Tyr Cys Asp

Pro Arg Lys Pro Ser Ser Lys Lys Pro Ser Lys Val Ala Asn Glu Lys
1810 1815 1820

Ile Pro Asn Asn Glu Glu Arg Thr Lys Gly Phe Ala Phe Asp Ser Pro 1825 1830 1835 1840

His His Tyr Thr Pro Ile Glu Gly Thr Pro Tyr Cys Phe Ser Arg Asn 1845 1850 1855

Asp Ser Leu Ser Ser Leu Asp Phe Glu Asp Asp Asp Ile Asp Leu Ser 1860 1865 1870

Lys Glu Lys Ala Glu Leu Arg Lys Glu Lys Gly Thr Lys Asp Thr Asp 1875 1880 1885

Gln Lys Val Lys Tyr Lys His Glu Asn Arg Ala Ile Asn Pro Met Gly
1890 1895 1900

Lys Gln Asp Gln Thr Gly Pro Lys Ser Leu Gly Gly Arg Asp Gln Pro
1905 1910 1915 1920

Lys Ala Leu Val Gln Lys Pro Thr Ser Phe Ser Ser Ala Ala Lys Gly
1925 1930 1935

Thr Gln Asp Arg Gly Gly Ala Thr Asp Glu Lys Met Glu Asn Phe Ala 1940 1945 1950

Ile Glu Asn Thr Pro Val Cys Phe Ser Arg Asn Ser Ser Leu Ser Ser 1955 1960 1965

Leu Ser Asp Ile Asp Gln Glu Asn Asn Asn Lys Glu Thr Glu Pro Leu
1970 1975 1980

Lys Gln Thr Gly Thr Ser Glu Thr Gln Leu Gly Leu Arg Arg Pro Gln
1985 1990 1995 2000

Thr Ser Gly Tyr Ala Pro Lys Ser Phe His Val Glu Asp Thr Pro Val
2005 2010 2015

Cys Phe Ser Arg Asn Ser Ser Leu Ser Ser Leu Ser Ile Asp Ser Glu
2020 2025 2030

Asp Asp Leu Leu Gln Glu Cys Ile Ser Ser Ala Met Pro Lys Lys Arg
2035 2040 2045

Lys Pro Ser Lys Ile Lys Asn Glu Val Gly Lys Ser Arg Ser Asn Ser

2050 2055 2060

Val Gly Gly Ile Leu Ala Glu Glu Pro Asp Leu Thr Leu Asp Leu Arg 2065 2070 2075 2080

Asp Ile Gln Ser Pro Asp Ser Glu Asn Ala Phe Ser Pro Asp Ser Glu

1 7/2 6

2085 2090 2095

Asn Phe Asp Trp Lys Ala Ile Gln Glu Gly Ala Asn Ser Ile Val Ser
2100 2105 2110

Arg Leu His Gln Ala Ala Ala Ala Gly Ser Leu Ser Arg Gln Gly Ser
2115 2120 2125

Ser Asp Ser Asp Ser Ile Leu Ser Leu Lys Ser Gly Ile Ser Leu Gly
2130 2135 2140

Ser Pro Phe His Leu Thr Leu Asp Lys Glu Glu Lys Thr Ile Thr Ser 2145 2150 2155 2160

Asn Lys Gly Pro Lys Ile Leu Lys Pro Ala Glu Lys Ser Ala Leu Glu
2165 2170 2175

Asn Lys Lys Thr Glu Glu Glu Pro Lys Gly Ile Lys Gly Gly Lys Lys
2180 2185 2190

Val Tyr Lys Ser Leu Ile Thr Gly Lys Ser Arg Ser Ser Ser Asp Phe
2195 2200 2205

Ser Ser His Cys Lys Gln Ser Val Gln Thr Asn Met Pro Ser Ile Ser
2210 2215 2220

Arg Gly Arg Thr Met Ile His Ile Pro Gly Val Arg Ala Ser Ser Pro
2225 2230 2235 2240

Ser Thr Ser Pro Val Ser Lys Lys Gly Pro Val Phe Lys Asn Val Pro
2245 2250 2255

Ser Lys Gly Ser Asn Glu Asn Pro Ser Ser Ser Ser Pro Lys Gly
2260 2265 2270

Thr Lys Pro Leu Lys Ser Glu Leu Val Tyr Gly Ser Arg Pro Ser Ser
2275 2280 2285

Thr Pro Gly Gly Ser Ser Lys Gly Asn Ser Arg Ser Gly Ser Arg Asp
2290
2295
2300

Ser Ala Ser Ser Arg Pro Ser Pro Gln Pro Leu Ser Arg Pro Leu Gln 2305 2310 2315 2320

Ser Pro Gly Arg Asn Ser Ile Ser Pro Gly Lys Asn Gly Ile Ser Pro
2325 2330 2335

Pro Asn Lys Phe Ser Gln Leu Pro Arg Thr Thr Ser Pro Ser Thr Ala
2340 2345 2350

Ser Thr Lys Ser Ser Gly Ser Gly Arg Met Ser Tyr Thr Ser Pro Gly
2355
2360
2365

1 9/2 6

Arg Gln Leu Ser Gln Pro Asn Leu Ser Lys Gln Ser Gly Leu Pro Lys 2370 2375 2380

Thr His Ser Ser Ile Pro Arg Ser Glu Ser Ala Ser Lys Ser Leu Asn 2385 2390 2395 2400

Gln Asn Val Asn Thr Gly Ser Asn Lys Lys Val Glu Leu Ser Arg Met
2405 2410 2415

Ser Ser Thr Lys Ser Ser Gly Ser Glu Ser Asp Arg Ser Glu Arg Pro
2420 2425 2430

Ala Leu Val Arg Gln Ser Thr Phe Ile Lys Glu Ala Pro Ser Pro Thr
2435 2440 2445

Leu Arg Arg Lys Leu Glu Glu Ser Ala Ser Phe Glu Ser Leu Ser Ser 2450 2455 2460

Ser Ser Arg Ala Asp Ser Pro Pro Arg Ser Gln Thr Gln Thr Pro Ala 2465 2470 2475 2480

Leu Ser Pro Ser Leu Pro Asp Met Ala Leu Ser Thr His Ser Ile Gln
2485 2490 2495

Ala Gly Gly Trp Arg Lys Met Pro Pro Asn Leu Asn Pro Ala Ala Glu

2500 2505 2510

His Gly Asp Ser Arg Arg His Asp Ile Ser Arg Ser His Ser Glu 2515 2520 2525

Ser Pro Ser Arg Leu Pro Ile Thr Arg Ser Gly Thr Trp Lys Arg Glu 2530 2535 2540

His Ser Lys His Ser Ser Ser Leu Pro Arg Val Ser Thr Trp Arg Arg 2545 2550 2555 2560

Thr Gly Ser Ser Ser Ser Ile Leu Ser Ala Ser Ser Glu Ser Ser Glu
2565 2570 2575

Lys Ala Lys Ser Glu Asp Glu Lys Gln Gln Val Cys Ser Phe Pro Gly
2580 2585 2590

Pro Arg Ser Glu Cys Ser Ser Ser Ala Lys Gly Thr Trp Arg Lys Ile 2595 2600 2605

Lys Glu Ser Glu Ile Leu Glu Thr Pro Ser Asn Gly Ser Ser Ser Thr 2610 2615 2620

Ile Ala Glu Ser Asn Cys Ser Leu Glu Ser Lys Thr Leu Val Tyr Gln 2625 2630 2635 2640

Met Ala Pro Ala Val Ser Lys Thr Glu Asp Val Trp Val Arg Ile Glu
2645 2650 2655

Asp Cys Pro Ile Asn Asn Pro Arg Ser Gly Arg Ser Pro Thr Gly Asn
2660 2665 2670

Ser Pro Pro Val Ile Asp Asn Val Leu Asp Gln Gly Gln Lys Glu Glu
2675 2680 2685

Ala Ala Lys Asp Cys His Thr Arg His Asn Ser Gly Asn Gly Asn Val
2690 2695 2700

Pro Leu Leu Glu Asn Arg Gln Lys Ser Phe Ile Lys Val Asp Gly Leu 2705 2710 2715 2720

Asp Thr Lys Gly Thr Asp Pro Lys Ser Leu Ile Asn Asn Gln Glu 2725 2730 2735

Thr Asn Glu Asn Thr Val Ala Glu Arg Thr Ala Phe Ser Ser Ser Ser Ser 2740 2745 2750

Ser Ser Lys His Ser Ser Pro Ser Gly Thr Val Ala Ala Arg Val Thr 2755 2760 2765

Pro Phe Asn Tyr Asn Pro Ser Pro Arg Lys Ser Asn Gly Glu Asn Ser 2770 2775 2780

2 2/2 6

Thr Ser Arg Pro Ser Gln Ile Pro Thr Pro Val Thr Asn Ser Thr Lys 2785 2790 2795 2800

Lys Arg Asp Ser Lys Thr Glu Thr Thr Asp Ser Ser Gly Ser Gln Ser
2805 2810 2815

Pro Lys Arg His Ser Gly Ser Tyr Leu Val Thr Ser Val 2820 2825

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<213> Artificial

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<212> DNA

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39

<210> 4

<211> 33

<212> DNA

<213> Artificial

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 $\langle 223 \rangle$ an artificially synthesized primer sequence

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cgacgcgtat ggctgctgct tcgtatgatc agt

33

<210> 5

<211> 29

<212> DNA

<213> Artificial

2 4/2 6

<220>	
<223>	an artificially synthesized primer sequence
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<210>	6
<211>	28
<212>	DNA
<213>	Artificial
<220>	
⟨223⟩	an artificially synthesized primer sequence
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ctagct	agca tggctgctgc ttcgtatg
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<210>	7
<211>	27
<212>	DNA
<213>	Artificial
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 $\langle 223 \rangle$ an artificially synthesized primer sequence

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28

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<210> 8

<211> 27

<212> DNA

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<223> an artificially synthesized primer sequence

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<212> DNA

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attagagete actetagae

19